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1 Scalability and performance of an agent-based network management middleware

Alan Bivens, Rashim Gupta, Ingo McLean, Boleslaw Szymanski, Jerome White
March   International Journal of Network Management,   Volume 14 Issue 2
2004
Publisher: John Wiley & Sons, Inc.
Full text available: 📄 pdf(269.74 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 11,   Downloads (12 Months): 108,   Citation Count: 0

Rapid growth of computer network sizes and uses necessitate analysis of network application middleware in terms of its scalability as well as performance. In this paper we analyze a distributed network management middleware based on agents that can be ...

2 Topology discovery for public IPv6 networks

Daniel G. Waddington, Fangzhe Chang, Ramesh Viswanathan, Bin Yao

Publisher: ACM

Full text available: pdf(182.34 KB)   Additional Information: full citation, abstract, references, index terms

In just three decades the Internet has grown from a small experimental research
network into a complex network of routers, switches, and hosts. Understanding the
topology of such large scale networks is essential to the procurement of good
architectural ...

Keywords: IPv6, IPv6 network topology discovery, network measurement, network
probing, topology inference

3 An accurate technique for measuring the wireless side of wireless networks

Jihwang Yeo, Moustafa Youssef, Tristan Henderson, Ashok Agrawala

Publisher: USENIX Association

Full text available: pdf(290.41 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Wireless monitoring (WM) is a passive approach for capturing wireless-side traffic
with rich MAC/PHY layer information. WM can suffer, however, from low capture
performance, i.e., high measurement loss, due to the unreliable wireless medium. In
this ...

4 Monitoring data archives for grid environments

Jason Lee, Dan Gunter, Martin Stoufer, Brian Tierney

Publisher: IEEE Computer Society Press

Full text available: pdf(107.31 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Developers and users of high-performance distributed systems often observe
performance problems such as unexpectedly low throughput or high latency. To
determine the source of these performance problems, detailed end-to-end
monitoring data from applications, ...

5 Dynamic scheduling of network resources with advance reservations in optical grids

Savera Tanwir, Lina Battestilli, Harry Perros, Gigi Karmous-Edwards

March 2008   International Journal of Network Management,   Volume 18 Issue 2

Publisher: John Wiley & Sons, Inc.

Full text available: 📄 pdf(887.43 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 0,   Downloads (12 Months): 0,   Citation Count: 0

Advance reservation of lightpaths in grid environments is necessary to guarantee QoS and reliability. In this paper, we have evaluated and compared several algorithms for dynamic scheduling of lightpaths using a flexible advance reservation model. The ...

6 Dynamic Tool Integration in Heterogeneous Computer Networks

Wolfgang Mueller, Tim Schattkowsky, Heinz-Josef Eikerling, Jan Wegner

March 2003   DATE '03: Proceedings of the conference on Design, Automation and Test in Europe - Volume 1,   Volume 1

Publisher: IEEE Computer Society

Full text available: 📄 pdf(210.53 KB) 📄 Publisher Site   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 2,   Downloads (12 Months): 23,   Citation Count: 0

Tool installation and automation of administrative tasks in heterogeneous computer networks becomes of increasing importance with the availability of complex heterogeneous computer networks. This article introduces a new approach for dynamic network ...

7 Detecting anomalies in network traffic using maximum entropy estimation

Yu Gu, Andrew McCallum, Don Towsley

October 2005   IMC '05: Proceedings of the 5th ACM SIGCOMM conference on Internet measurement

Publisher: ACM

Full text available: 📄 pdf(165.53 KB)   Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 5,   Downloads (12 Months): 21,   Citation Count: 0

We develop a behavior-based anomaly detection method that detects network anomalies by comparing the current network traffic against a baseline distribution. The Maximum Entropy technique provides a flexible and fast approach to estimate the baseline ...

8 Adaptive distributed monitoring with accuracy objectives

Alberto Gonzalez Prieto, Rolf Stadler

September 2006   INM '06: Proceedings of the 2006 SIGCOMM workshop on Internet network management

Publisher: ACM

Full text available: pdf(148.56 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 29, Citation Count: 1

We present A-GAP, a novel protocol for continuous monitoring of network state variables, which aims at achieving a given monitoring accuracy with minimal overhead. Network state variables are computed from device counters using aggregation functions, ...

Keywords: adaptive systems, distributed management, large-scale distributed systems, real-time monitoring

9 Coverage area management for wireless sensor networks

Isabela G. Siqueira, Linnyer Beatrys Ruiz, Antonio A. F. Loureiro, José Marcos Nogueira

January 2007   International Journal of Network Management, Volume 17 Issue 1

Publisher: John Wiley & Sons, Inc.

Full text available: pdf(244.97 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 18, Downloads (12 Months): 364, Citation Count: 0

In this work, we present a self-management service for Wireless Sensor Networks (WSNs) that automatically controls the network redundancy. Based on a density control function, this service improves the monitoring potential of the sensor nodes. Our simulation ...

10 A connectionless approach to integrated network management

Jairo A. Gutiérrez

July 1998 International Journal of Network Management, Volume 8 Issue 4

Publisher: John Wiley & Sons, Inc.

Full text available: pdf(67.46 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 89, Citation Count: 0

As computer networks become more complex and more heterogeneous (often involving systems from multiple vendors), the importance of integrated network management increases. This paper proposes a model to represent an integrated network management ...

11 Survey of network-based defense mechanisms countering the DoS and DDoS problems

Tao Peng, Christopher Leckie, Kotagiri Ramamohanarao

April   ACM Computing Surveys (CSUR), Volume 39 Issue 1
2007

Publisher: ACM

Full text available: pdf(1.17 MB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 147, Downloads (12 Months): 2833, Citation Count: 0

This article presents a survey of denial of service attacks and the methods that have been proposed for defense against these attacks. In this survey, we analyze the design decisions in the Internet that have created the potential for denial of service ...

Keywords: Botnet, DDoS, DNS reflector attack, DoS, IP spoofing, IP traceback, IRC, Internet security, SYN flood, VoIP security, bandwidth attack, resource management

12 Power line communication network trial and management in Korea

Jae-Jo Lee, Choong Seon Hong, Joon-Myung Kang, James Won-Ki Hong

November   International Journal of Network Management, Volume 16 Issue 6
2006

Publisher: John Wiley & Sons, Inc.

Full text available: pdf(1.33 MB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 221, Citation Count: 0

Power line communication (PLC) has become an important network access technology to conveniently and effectively provide various useful services such as remote meter reading, broadband Internet access, and home networking services. As the deployment ...

13 On accurate measurement of link quality in multi-hop wireless mesh networks

Kyu-Han Kim, Kang G. Shin

September   MobiCom '06: Proceedings of the 12th annual international conference
2006   on Mobile computing and networking

Publisher: ACM

Full text available: pdf(510.14 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 64, Downloads (12 Months): 995, Citation Count: 0

This paper presents a highly efficient and accurate link-quality measurement framework, called EAR (*Efficient and Accurate link-quality monito*R), for multi-hop wireless mesh networks, that has several salient features. First, it exploits three ...

Keywords: asymmetric link quality, link-quality measurement, wireless mesh networks

14 A performance monitoring system for VoIP gateways

Adrian E. Conway
September   WOSP '00: Proceedings of the 2nd international workshop on Software
2000   and performance
Publisher: ACM

Full text available: pdf(97.11 KB)   Additional Information: full citation, references, index terms

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 150, Citation Count: 0

Keywords: IP telephony, PRI statistics, dial peer, gateway, performance monitoring, voice-over-IP

15 Distributed XML-based network management using JPVM

Shaik Sirajuddin, Mohammed H. Sqalli
July 2006 International Journal of Network Management, Volume 16 Issue 4
Publisher: John Wiley & Sons, Inc.

Full text available: pdf(727.08 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 82, Citation Count: 0

The proliferation of the Internet and related applications has led to an increasing need for a more efficient and scalable network management framework. As the size of networks increases, more challenges are presented to network managers. One of these ...

16 A unified approach for improving QoS and provider revenue in 3G mobile networks

Christoph Lindemann, Marco Lohmann, Axel Thümmler
June   Mobile Networks and Applications, Volume 8 Issue 3
2003
Publisher: Kluwer Academic Publishers

Full text available: pdf(407.92 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 28, Downloads (12 Months): 203, Citation Count: 1

In this paper, we introduce a unified approach for the adaptive control of 3G mobile networks in order to improve both quality of service (QoS) for mobile subscribers and to increase revenue for service providers. The introduced approach constantly monitors ...

Keywords: admission control in mobile system, performance evaluation of next generation mobile systems, pricing and revenue optimization, quality of service in mobile systems

17 A proposal to improve network throughput using a QoS building blocks approach at Central University of Venezuela

María E. Villapol, Eric A. Gamess, Neudith Morales
October   LANC '05: Proceedings of the 3rd international IFIP/ACM Latin American
2005   conference on Networking
Publisher: ACM

Full text available: pdf(183.02   Additional Information: full citation, abstract, references, index terms
KB)

Bibliometrics: Downloads (6 Weeks): 8,   Downloads (12 Months): 110,   Citation Count: 0

Central University of Venezuela is the main university of Venezuela and has approximately 60,000 students and 16,000 staff members. The backbone network connects 11 colleges and many non-academic dependencies; some of them are located outside the main ...

Keywords: congestion control, quality of service (QoS), service models

18 Ultra-low power data storage for sensor networks

Gaurav Mathur, Peter Desnoyers, Deepak Ganesan, Prashant Shenoy
April   IPSN '06: Proceedings of the fifth international conference on Information
2006   processing in sensor networks
Publisher: ACM

Full text available: pdf(325.36   Additional Information: full citation, abstract, references, cited by,
KB)   index terms

Bibliometrics: Downloads (6 Weeks): 27,   Downloads (12 Months): 215,   Citation Count: 7

Local storage is required in many sensor network applications, both for archival of detailed event information, as well as to overcome sensor platform memory constraints. While extensive measurement studies have been performed to highlight the trade-off ...

Keywords: embedded systems, energy efficiency, flash memory, sensor networks, storage

19 An efficient and lightweight embedded Web server for Web-based network element management

Hong-Taek Ju, Mi-Joung Choi, James W. Hong
September   International Journal of Network Management,   Volume 10 Issue 5
2000

Publisher: John Wiley & Sons, Inc.

Full text available: pdf(428.26 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 4,   Downloads (12 Months): 206,   Citation Count: 1

An Embedded Web Server (EWS) is a Web server which runs on an embedded system with limited computing resources to serve embedded Web documents to a Web browser. By embedding a Web server into a network device, it is possible to provide a Web‐based ...

20 Fault management in event-driven wireless sensor networks

Linnyer Beatrys Ruiz, Isabela G. Siqueira, Leonardo B. e Oliveira, Hao Chi Wong, José Marcos S. Nogueira, Antonio A. F. Loureiro
October   MSWiM '04: Proceedings of the 7th ACM international symposium on
2004   Modeling, analysis and simulation of wireless and mobile systems

Publisher: ACM

Full text available: pdf(196.15 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 16,   Downloads (12 Months): 178,   Citation Count: 3

Wireless Sensor Networks (WSNs) have emerged as a new monitoring and control solution for a variety of applications. Although the behavior of a WSN is characterized by the type of its application, a common element exist: faults are a normal fact, not ...

Keywords: fault management, network monitoring, self-management, wireless sensor networks

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